



SANDVIK D75KS ROTARY/DTH BLAST HOLE DRILL

TECHNICAL SPECIFICATION

The D75KS is a diesel powered, self-propelled crawler mounted drill designed for high-pressure down-the-hole or low-pressure rotary blasthole drilling in the mining industry. This drill is equipped to rotary drill 229 to 279 mm (9" to 11") diameter holes.

- First pass hole depth is up to 10.2 m (33' 6")
- Multipass hole depth is up to 53 m (173')
- Pulldown is up to 334 kN (75,000 lbf)
- Bit load is up to 409 kN (92,000 lbf)
- Pullback is up to 193 kN (43,400 lbf)



PERFORMANCE

	Metric	Imperial
Hole diameter	172 - 254 mm	6 3/4" - 10"
Maximum hole depth (sp)	17 m	55' Single Pass
Drill pipe	7.62 m	25'
Maximum pulldown	200 kN	45,000 lbf
Maximum bit load	232 kN	52,000 lbf
Feed rate	0 - 35.4 m/min	0-116 fpm
Operating weight*	79,333 kg	174,900 lb

*Weights are approximate and subject to change without notice. All performance figures are theoretical and at 100% systems efficiency.

POWER GROUP

	Metric	Imperial
Engine Model	QSK 19	
Rated horsepower	563 kW	755 hp
Full load rpm	1,800 RPM	
Standard ambient range	-VE 15°C +VE 54°C	5°F -130°F
Fuel tank	2,274L	600 gal
High pressure	38.2 m ³ /min	1,350 scfm
DTH	24.1 bar	350 psi
Low pressure	45.3 m ³ /min	1,600 scfm
Rotary	6.9 bar	100 psi

HYDRAULIC SYSTEM

	Metric	Imperial
Oil reservoir	872 L w/sight glass	230 gal & temp. gauge
Reservoir pressurization	0.345 bar air, filtered breather	5 psi air, filtered breather
Reservoir refill capacity	1,213 L	320 gal
Standard ambient rating	40 to +100°C	-40 to +212°F

FRAME AND INTEGRAL JACKS

	Metric	Imperial
Main frame	CAD/FEA designed, wide flange beam main rails w/ heavy cross bracing reinforced at high-stress areas	
Walkways	Open grip strut, from cab to right deck & front to service cooler and air cleaners. Left side to service compressor receiver tank & dust control systems. Complete w/ handrails, kickplates & access ladders.	
Lifting hooks	Welded, 2 front, 2 rear	
Leveling Jacks	3 standard, 4 jack option available	
Pad diameter	7,621 mm	30"
Pad ground clearance	559 mm front, 457 mm rear	22" front, 18" rear when retracted

UNDERCARRIAGE

	Metric	Imperial
Model	Sandvik S35HD	
Pad width	850 mm	33 1/2"
Pad type	Triple grouser	
Width over tracks	3,68 m	12' 1"
Tram speed	2.3 km/h	1.4 mph
Gradeability, mast down	58% (approx. 30°)	

FEED

	Metric	Imperial
Feed type	Hydraulic cylinder and chain	
Brake	Spring set, hydraulic release	
Chain type	2 heavy series roller chains with heavy side bars and thru hardened pins	
Chain size	ANSI #200 Super-H Series, 63.5 mm pitch	ANSI #200 Super-H Series, 2 1/2" pitch
Rotary head stroke	12.19 m	40'
Bit load	409 kN	92,000 lbf with heavy wall pipe
Chain adjustment	Manually adjusted hydraulic	

MAST

	Metric	Imperial
Construction	Rectangular tubing, welded, spray transfer welding method w/beveled toe joints and recessed side members, and reinforcing in high stress areas. CAD designed.	
Pivot bushings	Replaceable alloy aluminum bronze	
Hydraulic lines	Pressure rated steel hydraulic tubing, all pipes clamped in plastic clamps	
Table hole diameter	508 mm	20" for holding wrench pilot
Mast Raising cylinders	two	
Angle drill	0° to 20° in 5° increments	
Lubrication	Lubrication system for pulldown chains	

ROTARY HEAD

	Metric	Imperial
Rotary power	145 kW	195 hp
Standard rotary speed/torque	94 rpm at 14,236 Nm	126,000 in-lb
Alternate rotary speed/torque w/ 5 1/2" API thread	114 rpm at 11,782 Nm 144 rpm at 9,625 Nm	104,276 in-lb 82,400 in-lb
Bullshaft thread	3 1/2" API REGULAR	

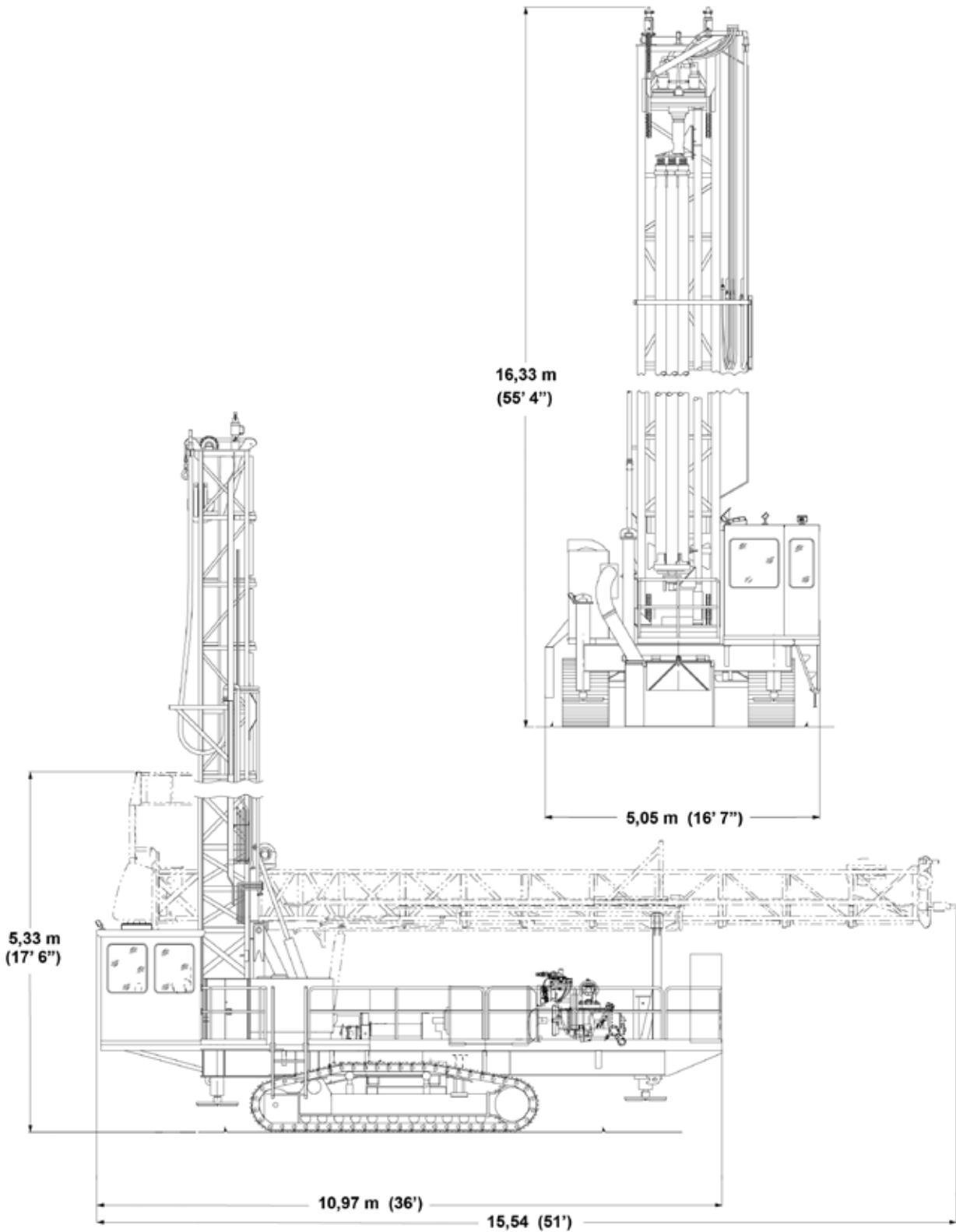
DIMENSIONS

	Metric	Imperial
Mast up height	16.33 m	53' 7"
Operating width	5.05 m	16' 7"
Mast down length	15.54 m	51 ft
Mast down height w/ work deck	5.33 m	17' 6"
Mast up length	10.97 m	36 ft

WEIGHT

Base unit less tools	56,246kg	124,000 lb
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Dimensions are per engineering drawings, actuals may vary slightly. Weights are approximate and subject to change without notice. All performance figures are theoretical and at 100% systems efficiency.



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